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(REVIEW ARTICLE)



# Al and ethics in business: A comprehensive review of responsible Al practices and corporate responsibility

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#### **Abstract**

As artificial intelligence (AI) continues to revolutionize business landscapes, the ethical implications of its deployment have garnered significant attention. This paper presents a comprehensive review of the intersection between AI and ethics in the context of corporate responsibility. The integration of AI into business processes necessitates a thorough understanding of responsible AI practices to ensure that technological advancements align with ethical standards and societal values. The first dimension explored in this review is the critical importance of transparency in AI algorithms and decision-making processes. Businesses adopting AI technologies must prioritize transparency to build trust among stakeholders, ensuring that the decision-making processes are understandable and accountable. Ethical considerations also extend to issues of bias and fairness, prompting the need for diverse and inclusive datasets to prevent discriminatory outcomes. Corporate responsibility in the realm of AI extends beyond technical aspects, encompassing the broader socio-economic impact of AI implementation. The review highlights the significance of considering the effects of AI on employment, inequality, and accessibility. Businesses are urged to adopt ethical guidelines that prioritize the well-being of employees and society at large, mitigating the potential negative consequences of AI on employment dynamics and social structures. Furthermore, the paper delves into the ethical considerations surrounding data privacy and security, emphasizing the importance of responsible data handling practices. As businesses accumulate vast amounts of data, it becomes imperative to prioritize the protection of individuals' privacy rights, reinforcing the ethical foundation of AI applications. This comprehensive review underscores the need for businesses to integrate responsible All practices within the framework of corporate responsibility. By prioritizing transparency, fairness, and ethical data practices, organizations can navigate the complex terrain of AI implementation while ensuring alignment with societal values and ethical standards. This synthesis of AI and ethics in business is essential for fostering a sustainable and responsible technological future.

**Keywords:** AI; Ethics; Business; Corporate Responsibility; AI practices; Review

# 1. Introduction

Artificial Intelligence (AI) has become a cornerstone of technological advancement, transforming the landscape of various industries, with its profound impact particularly pronounced in the realm of business (Ziakis and Vlachopoulou, 2023). This paper aims to provide a brief yet comprehensive overview of the escalating role of AI in business operations

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and strategies. The integration of AI in business processes is multifaceted, encompassing areas such as automation, decision-making, and predictive analytics (Sarker, 2022). AI algorithms, driven by machine learning and neural networks, enable businesses to analyze vast datasets, derive meaningful insights, and make informed decisions at an unprecedented speed (Dwivedi *et al.*, 2021). The acceleration of AI adoption in business is fueled by the promise of increased productivity, cost savings, and competitive advantages (Javaid *et al.*, 2022). However, as AI becomes deeply embedded in organizational workflows, the ethical implications of its deployment come to the forefront, prompting the need for a thoughtful examination of responsible AI practices and corporate responsibility.

The rapid integration of AI in business raises ethical concerns that demand meticulous attention. One of the primary ethical considerations is transparency in AI decision-making processes (Nassar and Kamal, 2021). As AI systems become increasingly complex, the lack of transparency can lead to opaqueness in how decisions are made, risking the erosion of trust among stakeholders. The significance of transparency lies not only in building trust but also in ensuring accountability and understanding in the face of AI-driven decisions that impact individuals and societies (Shin, 2021).

Another critical ethical dimension is the potential bias embedded in AI algorithms. AI models learn from historical data, and if this data contains biases, the AI system may perpetuate and exacerbate those biases in its outputs (Schwartz *et al.*, 2022). Recognizing and addressing biases is essential to prevent discriminatory outcomes, particularly in areas like hiring, lending, and law enforcement where AI is increasingly applied.

Socio-economic impact is another ethical facet that cannot be overlooked. AI has the potential to reshape employment dynamics, and its adoption may lead to job displacement. Ethical considerations involve not only ensuring a just transition for affected workers but also addressing broader societal implications, including potential increases in inequality (Wang and Lo, 2021). Inclusive practices that consider the social impact of AI deployment are crucial to mitigate negative consequences.

The purpose of this comprehensive review is to systematically explore and analyze the ethical considerations surrounding AI deployment in business, with a specific focus on responsible AI practices and corporate responsibility. The evolving nature of AI necessitates a proactive and adaptive approach to ensure that its integration aligns with ethical standards and societal values. Firstly, the review aims to shed light on the imperative of transparency in AI decision-making processes. By examining existing research and case studies, the paper will illustrate how transparency not only fosters trust but also contributes to the development of accountable AI systems. It will emphasize the need for businesses to adopt transparent practices as an ethical cornerstone of AI deployment. Secondly, the review will delve into the ethical challenges related to bias and fairness in AI algorithms. Drawing on examples from various industries, the paper will explore strategies for mitigating bias, including the use of diverse and inclusive datasets. It will underscore the ethical responsibility of businesses to ensure that AI applications uphold fairness principles and avoid reinforcing existing societal prejudices. Thirdly, the review will explore the socio-economic impact of AI and the ethical considerations surrounding employment dynamics. By analyzing current research and ethical frameworks, the paper will highlight how businesses can navigate the complexities of AI-related job displacement and promote inclusive practices that prioritize societal well-being.

In conclusion, this comprehensive review aims to provide a scientific foundation for understanding the ethical considerations in the increasing role of AI in business. By examining responsible AI practices and corporate responsibility, the paper seeks to contribute to the development of a framework that ensures the ethical deployment of AI, fostering a harmonious integration of technology and societal values in the business landscape.

# 2. Transparency in AI Decision-Making

In the ever-expanding landscape of artificial intelligence (AI), the transparency of AI algorithms has emerged as a paramount ethical consideration (Bai and Fang, 2022). This paper delves into the significance of transparent AI algorithms, emphasizing their importance in building trust through understandable and accountable decision-making processes. Furthermore, real-world case studies will be explored to illustrate the tangible impact of transparency on stakeholder trust.

Transparent AI algorithms are integral to ensuring that the decision-making processes of AI systems are not obscured in a proverbial "black box." In essence, transparency refers to making the underlying mechanisms of AI models comprehensible and accessible to users and stakeholders. The importance of this transparency is underscored by several critical factors. From customer service chatbots to complex supply chain optimization, AI is revolutionizing traditional business models, enhancing efficiency, and unlocking new opportunities for growth as explain in figure 1.

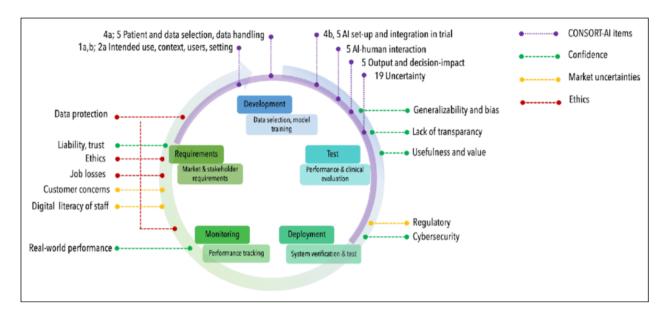


Figure 1 The lifecycle of artificial intelligence (AI) (Schwendicke and Krois, 2021)

Transparent AI algorithms facilitate the identification and mitigation of biases within the decision-making process. As AI models learn from historical data, the potential for bias to be inadvertently incorporated exists (Varona and Suárez, 2022). By exposing the decision-making process, stakeholders can scrutinize and address biases, ensuring that AI systems produce fair and unbiased outcomes. Transparency fosters accountability by making the decision-making process traceable and understandable. Stakeholders, ranging from end-users to regulatory bodies, can scrutinize the logic and inputs that lead to specific AI-driven decisions (Radu, 2021). This accountability is crucial in sectors where decisions hold significant consequences, such as healthcare, finance, and criminal justice. Transparent AI empowers users by providing insights into how decisions are reached. This user understanding is vital in contexts like customer service, where AI-driven chatbots or virtual assistants interact with users. When users can comprehend the reasoning behind AI decisions, they are more likely to trust and engage with AI technologies (Shin, 2021).

Building trust in AI systems necessitates a commitment to transparency, particularly in the formulation and communication of decision-making processes. This involves making the inner workings of AI algorithms understandable to a diverse audience, including non-technical users. The trust-building process is further reinforced by ensuring accountability in the face of AI-driven outcomes. Transparent AI involves clear communication about how decisions are made. This includes explaining the logic, factors considered, and the weight assigned to different variables within the AI model. Companies deploying AI should invest in user education to enhance understanding, fostering a sense of transparency and trust (Robinson, 2020). Accountability in AI decision-making can be operationalized through mechanisms that identify errors or unintended consequences. Companies should establish protocols for identifying and rectifying issues promptly. This not only protects stakeholders from potential harm but also showcases a commitment to responsible and ethical AI practices. Establishing and adhering to ethical frameworks for AI deployment contributes significantly to building trust. Transparent communication about the ethical principles governing AI systems reassures stakeholders that the organization is committed to ethical conduct (Camilleri, 2023). This is particularly relevant in sectors where ethical considerations are paramount, such as healthcare and finance.

Google's healthcare subsidiary, DeepMind, has developed AI models for diagnosing eye diseases. The models not only provide accurate predictions but also generate heatmaps highlighting areas of the retinal image contributing to the diagnosis. This transparent approach enhances trust among healthcare professionals by offering clear insights into the AI's decision-making process. ZestFinance, a fintech company, employs transparent AI algorithms in its credit scoring models. By providing borrowers with explanations for their credit scores, ZestFinance has not only complied with regulatory requirements but has also built trust among users. This transparency enables borrowers to understand the factors influencing their creditworthiness. IBM's AI Fairness 360 toolkit addresses bias in AI models. It provides tools to examine, report, and mitigate bias in AI systems across various industries (Lee and Singh, 2021,). By promoting transparency in identifying and rectifying biases, IBM's toolkit contributes to building trust in the fairness and reliability of AI applications.

In conclusion, the transparency of AI algorithms is a linchpin in the ethical deployment of AI systems. Through clear communication, accountability mechanisms, and adherence to ethical frameworks, organizations can build trust among stakeholders (Aldboush and Ferdous, 2023). The case studies highlighted demonstrate the tangible impact of transparent AI on fostering trust in diverse sectors, reinforcing the notion that transparency is not only an ethical imperative but also a strategic asset in the widespread adoption of AI technologies.

#### 3. Bias and Fairness in AI

As artificial intelligence (AI) technologies become increasingly integrated into various aspects of our lives, the recognition and mitigation of biases in AI algorithms have emerged as critical ethical imperatives (Stahl, 2021). This paper explores the multifaceted issue of bias and fairness in AI, highlighting the importance of recognizing biases, the necessity of diverse and inclusive datasets, and strategies for minimizing discriminatory outcomes in AI applications.

The recognition of biases in AI algorithms is a crucial first step in addressing ethical concerns related to fairness (Mehrabi *et al.*, 2021). Biases can manifest in various forms, stemming from historical data, human prejudices, or systemic inequalities present in the data used to train AI models. These biases can lead to discriminatory outcomes, reinforcing existing disparities and perpetuating social injustices. Biases in AI can manifest as disparate impact, where certain groups are disproportionately affected by the model's predictions or decisions. Other types of biases include selection bias, where the training data is not representative of the population, and confirmation bias, where the AI system perpetuates existing stereotypes. In sectors such as hiring, lending, and law enforcement, biased AI algorithms can lead to discriminatory decisions (Fu *et al.*, 2020). For example, biased facial recognition systems may misidentify individuals based on factors like race or gender, while biased hiring algorithms may inadvertently favor certain demographic groups over others. The ethical implications of biases in AI are far-reaching, affecting individuals, communities, and society at large. Unchecked biases erode trust in AI systems, exacerbate societal inequalities, and raise concerns about the fair and just deployment of technology.

To address biases in AI algorithms, a fundamental prerequisite is the use of diverse and inclusive datasets. The composition of training data significantly influences the performance and fairness of AI models (Teodorescu *et al.*, 2021). A lack of diversity in datasets can result in models that are skewed towards the majority, perpetuating existing imbalances and marginalizing underrepresented groups. Diverse datasets should accurately represent the population the AI system will interact with or impact. This includes considerations of demographic factors such as race, gender, age, and socioeconomic status. Training models on inclusive datasets helps ensure that the AI system learns from a broad spectrum of experiences and avoids reinforcing stereotypes.

Ethical data collection practices are essential to building inclusive datasets. It involves actively seeking out diverse perspectives, avoiding the perpetuation of historical biases, and continually updating datasets to reflect changing societal norms (Manure and Bengani, 2023). Informed consent and transparency in data collection processes contribute to building ethical foundations for AI development. Engaging with the communities affected by AI systems is crucial. Seeking input, feedback, and collaboration from diverse stakeholders help developers gain a deeper understanding of potential biases and ethical considerations. Community engagement fosters a collaborative approach to building AI systems that are fair, inclusive, and aligned with societal values (Rane, 2023).

Minimizing discriminatory outcomes in AI applications requires a proactive approach that combines technological solutions, ethical guidelines, and ongoing scrutiny. Several strategies can be employed to achieve fairness in AI systems. Regular audits of AI algorithms can help identify and rectify biases. This involves assessing the model's performance across different demographic groups and ensuring that the impact is equitable. Algorithmic audits provide a systematic method for detecting and mitigating biases throughout the lifecycle of an AI application. Building AI models that are explainable and interpretable enhances transparency. Understanding how an AI system arrives at specific decisions allows developers and end-users to identify and address biased patterns (Liao *et al.*, 2020). Explainability is particularly crucial in high-stakes applications, such as healthcare and criminal justice, where accountability is paramount. Implementing continuous monitoring and feedback loops enables ongoing scrutiny of AI systems. This involves collecting feedback from users, assessing real-world impact, and making iterative improvements to address emerging biases. Establishing mechanisms for continuous improvement ensures that AI systems adapt to evolving ethical standards. Integrating fairness-aware machine learning techniques during model development can help mitigate biases. This involves incorporating fairness metrics into the training process, actively identifying and penalizing discriminatory patterns. Fairness-aware approaches contribute to the development of models that prioritize equitable outcomes (Sikstrom *et al.*, 2022).

In conclusion, recognizing and mitigating biases in AI algorithms are essential steps in fostering fairness and ethical deployment of AI technologies. Diverse and inclusive datasets, coupled with strategies for minimizing discriminatory outcomes, form a holistic approach to building AI systems that align with societal values and contribute to a more equitable future (Chi *et al.*, 2021). The ongoing commitment to ethical AI practices is paramount as technology continues to shape the way we live, work, and interact with the world.

## 4. Socio-Economic Impact of AI

The widespread integration of artificial intelligence (AI) into various industries has ushered in transformative changes, not only in the business landscape but also in socio-economic dynamics (Satornino *et al.*, 2024). This paper delves into the socio-economic impact of AI, emphasizing the ethical considerations in employment dynamics, strategies for mitigating inequality, and guidelines for businesses to responsibly navigate these complex waters.

As AI technologies automate tasks, enhance efficiency, and redefine job roles, ethical considerations in AI-related employment dynamics come to the forefront. The potential displacement of jobs, changes in skill requirements, and the digital divide necessitate a thoughtful approach to ensure that the benefits of AI are distributed equitably across society.

Al's automation capabilities may lead to the displacement of certain jobs, raising ethical concerns about the impact on workers. Businesses deploying AI should proactively address these challenges by investing in reskilling and upskilling programs. By providing employees with the necessary tools to adapt to evolving job requirements, companies can mitigate the negative impact of job displacement. Ethical considerations extend beyond job displacement to the accessibility of opportunities created by AI. Companies must prioritize inclusivity in hiring and talent development, ensuring that individuals from diverse backgrounds have equal access to positions created or transformed by AI technologies (Kassir *et al.*, 2023). This commitment to equitable opportunities aligns with principles of social justice and fairness. The ethical treatment of workers in the age of AI involves upholding their well-being and rights. Companies must consider factors such as working conditions, mental health, and job security. Ethical business practices include fostering a positive work environment, providing avenues for professional growth, and respecting the rights of workers to fair wages and reasonable working hours.

Al's impact on socio-economic dynamics can either exacerbate existing inequalities or serve as a tool for promoting inclusivity (Sanni et al., 2024, Anamu et al., 2023). Proactive measures are required to ensure that the benefits of AI are distributed equitably and do not widen existing socio-economic gaps (Yu, 2020). The development of AI systems should be rooted in diversity and inclusivity. This involves incorporating perspectives from diverse stakeholders in the design and development process to avoid perpetuating biases. Diverse teams are more likely to identify and address potential biases in AI algorithms, contributing to the creation of fair and inclusive technologies (Yarger *et al.*, 2020, Adebukola et al., 2022). To mitigate the risk of creating a digital divide, businesses should prioritize accessibility and digital literacy initiatives. Ensuring that AI technologies are accessible to individuals with diverse abilities and providing training programs to enhance digital literacy contribute to inclusivity. Bridging the digital divide is essential for preventing marginalized groups from being left behind. Engaging with communities affected by AI implementations is crucial. Conducting impact assessments and seeking input from diverse stakeholders help businesses understand and address the potential socio-economic consequences of AI (Fichter *et al.*, 2023). This community-centric approach fosters inclusivity and ensures that AI technologies are aligned with the needs and values of the broader society.

Navigating the socio-economic impact of AI responsibly requires businesses to adopt guidelines that prioritize ethical considerations and societal well-being. These guidelines can serve as a compass for businesses navigating the evolving landscape of AI deployment. Businesses should formulate and adhere to ethical AI policies that prioritize fairness, transparency, and accountability. These policies should guide the development, deployment, and ongoing management of AI systems, ensuring that ethical considerations are integrated into every phase of the AI lifecycle (Burr and Leslie, 2023). To address the changing skills landscape, businesses should invest in education and training programs for their workforce. This includes reskilling initiatives to prepare employees for evolving job roles and fostering a culture of continuous learning. By prioritizing education and training, businesses contribute to the empowerment and resilience of their workforce in the face of AI-related changes. Collaboration with diverse stakeholders, including employees, communities, and advocacy groups, is essential. Businesses should actively seek input and feedback from these stakeholders to understand the broader impact of AI implementations. Collaborative decision-making ensures that businesses consider a variety of perspectives and prioritize the interests of the communities they serve. Continuous monitoring and evaluation of the socio-economic impact of AI initiatives are vital. Businesses should establish metrics to assess the impact on employment, equality, and community well-being. Regular evaluations allow for adjustments and refinements to AI strategies, ensuring that they align with ethical principles and contribute positively to society.

As AI continues to reshape socio-economic dynamics, businesses play a pivotal role in determining the ethical course of these changes. By recognizing the ethical considerations in AI-related employment, mitigating inequality, and adhering to responsible guidelines, businesses can navigate the socio-economic impact of AI in a way that benefits both their bottom line and the broader society. This responsible approach ensures that AI becomes a force for positive change, promoting inclusivity and equitable access to opportunities.

# 5. Corporate Responsibility in AI Implementation

The integration of Artificial Intelligence (AI) into business operations brings forth a critical need for corporate responsibility to navigate the ethical complexities associated with this transformative technology (Wamba-Taguimdje *et al.*, 2020). This paper explores the multifaceted aspects of corporate responsibility in AI implementation, emphasizing the importance of broadening ethical considerations, establishing frameworks for responsible practices, and balancing business goals with societal well-being.

Corporate responsibility in AI transcends mere technical considerations and necessitates a broader ethical lens that encompasses societal impact, transparency, and long-term consequences (Selbst, 2021). It involves recognizing that the deployment of AI systems extends beyond code and algorithms, influencing various stakeholders and societal dynamics. Responsible AI implementation involves conducting thorough societal impact assessments. This entails anticipating the potential consequences of AI applications on diverse communities, employment dynamics, and existing social structures. By understanding the broader societal implications, businesses can make informed decisions that prioritize ethical considerations. Transparency is a cornerstone of corporate responsibility in AI. Businesses should prioritize open communication about their AI strategies, decision-making processes, and potential impacts. Engaging with stakeholders, including employees, customers, and the wider community, fosters a collaborative approach to AI deployment and ensures that diverse perspectives are considered (Richey Jr *et al.*, 2023). Ethical considerations encompass the recognition and mitigation of biases in AI algorithms. Businesses must actively address issues related to fairness, accountability, and transparency in the design and deployment of AI systems. This involves adopting strategies to identify and rectify biases, ensuring that AI applications do not perpetuate or exacerbate existing societal inequalities.

Establishing frameworks for responsible AI practices is crucial for embedding ethical considerations into the fabric of corporate responsibility (Burr and Leslie, 2023). These frameworks guide decision-making, set standards, and provide a roadmap for businesses to navigate the ethical challenges associated with AI. Businesses should develop and adhere to comprehensive ethical AI guidelines that align with broader corporate responsibility principles. These guidelines should cover aspects such as fairness, transparency, accountability, and the impact on human rights. Establishing clear ethical standards ensures a principled approach to AI deployment. Corporate responsibility extends to fostering a culture of continuous ethical learning within organizations. Providing employees with ongoing training on ethical considerations in AI encourages awareness, responsible decision-making, and the integration of ethical principles into day-to-day operations (Brendel *et al.*, 2021). This commitment to ethical education contributes to a more responsible AI ecosystem.

To ensure accountability, businesses can engage external auditors or seek certifications for their AI systems. Third-party assessments help verify compliance with ethical guidelines and provide an objective evaluation of the impact and fairness of AI applications. Certification processes contribute to building trust among stakeholders and the wider public. A crucial aspect of corporate responsibility in AI implementation involves striking a balance between achieving business goals and prioritizing societal well-being. Businesses must recognize their role as responsible stewards of technology and actively work towards aligning corporate success with positive societal outcomes (Sama *et al.*, 2022). Corporate responsibility requires a shift from a purely profit-driven mindset to one that aligns business goals with societal purpose. This involves considering the ethical implications of AI applications, weighing potential risks, and prioritizing responsible practices that contribute positively to society. Responsible AI deployment requires a focus on long-term sustainability rather than short-term gains. Businesses should consider the lasting impact of AI on employees, communities, and the environment. This forward-thinking approach involves anticipating potential challenges and proactively implementing measures to mitigate negative consequences. Businesses can actively collaborate with other organizations, governmental bodies, and non-profits to collectively address societal challenges posed by AI (Gegenhuber and Mair, 2024). By working towards common goals, businesses contribute to the development of a sustainable and responsible AI ecosystem that prioritizes the well-being of individuals and communities.

In conclusion, corporate responsibility in AI implementation demands a holistic approach that extends beyond technical aspects. By broadening ethical considerations, establishing frameworks for responsible AI practices, and balancing business goals with societal well-being, businesses can navigate the ethical complexities associated with AI deployment

(Birkstedt *et al.*, 2023). This approach not only aligns with principles of responsible governance but also contributes to the creation of a more ethical, inclusive, and sustainable AI landscape.

## 6. Data Privacy and Security

The increasing prevalence of Artificial Intelligence (AI) applications in various domains has brought to the forefront the imperative of data privacy and security (Khan and Mer, 2023). This paper explores the ethical handling of data in AI applications, the protection of individuals' privacy rights in the age of AI, and the legal and ethical considerations crucial in data-centric AI practices.

The ethical handling of data in AI applications is fundamental to establishing trust and ensuring responsible use of information. As AI systems rely heavily on data to learn, make predictions, and automate decisions, businesses must adhere to ethical principles to safeguard the privacy and security of sensitive information (Mylrea and Robinson, 2023). Respecting individuals' autonomy requires obtaining informed consent for the collection and use of their data. Businesses should transparently communicate the purposes of data collection, how the data will be used, and any potential implications. Providing individuals with clear information fosters trust and empowers them to make informed decisions about sharing their data. Ethical AI practices involve collecting only the data necessary for the intended purpose. Data minimization ensures that businesses do not amass excessive information, reducing the risk of unauthorized access or misuse. Similarly, adhering to the principle of purpose limitation ensures that data is utilized only for the specific purposes disclosed to individuals (Larson *et al.*, 2020). To protect privacy, businesses should implement robust anonymization and de-identification techniques. By removing or encrypting personally identifiable information, organizations can utilize data for AI applications without compromising the privacy rights of individuals. This ethical approach mitigates the risk of re-identification and unauthorized access to sensitive information.

As AI systems become more sophisticated in processing vast amounts of data, protecting individuals' privacy rights becomes paramount (Walters and Novak, 2021). Privacy rights encompass the right to control one's personal information and the right to be free from unwarranted surveillance or data exploitation. Individuals should have the right to access their personal data held by businesses and exert control over its use. Providing mechanisms for individuals to review, edit, or delete their data ensures that businesses respect privacy rights (Aljeraisy *et al.*, 2021). This not only aligns with ethical principles but also empowers individuals to actively manage their personal information. In the age of AI, protecting privacy rights involves ensuring transparency in the algorithms used (Felzmann *et al.*, 2020). Individuals should be informed about how automated decisions are made and have the right to understand the logic behind these decisions. This transparency not only upholds privacy rights but also contributes to building trust in AI systems. Ethical AI practices involve dynamic consent management, allowing individuals to grant or revoke consent based on evolving circumstances (Mamo *et al.*, 2020). This ensures that individuals maintain control over their data and can withdraw consent if they feel uncomfortable with how their information is being used. Businesses should implement robust mechanisms for managing and respecting consent preferences.

Legal and ethical considerations play a pivotal role in shaping data-centric AI practices. Businesses must navigate a complex regulatory landscape while upholding ethical standards to ensure responsible data use (Lobschat *et al.*, 2021). Businesses must adhere to data protection laws, such as the General Data Protection Regulation (GDPR) in the European Union or the California Consumer Privacy Act (CCPA) in the United States. Complying with these regulations ensures that individuals' privacy rights are protected, and businesses face legal consequences for non-compliance.

Establishing ethical data governance policies is essential for responsible AI practices. These policies should outline the ethical principles guiding data use, including transparency, fairness, and accountability. Ethical data governance goes beyond legal requirements, setting a higher standard for businesses to prioritize ethical considerations in their AI applications. Ethical data-centric AI practices involve conducting thorough risk assessments and impact analyses. Businesses should evaluate the potential consequences of data use on individuals and communities, considering not only legal ramifications but also ethical implications (Char et al., 2020). This proactive approach ensures that businesses are aware of potential risks and take measures to mitigate them.

In conclusion, safeguarding trust in the era of AI requires a concerted effort to ethically handle data, protect individuals' privacy rights, and adhere to legal and ethical considerations. Businesses that prioritize responsible data practices contribute to building a trustworthy AI ecosystem that respects individuals' privacy, promotes transparency, and aligns with ethical principles in the ever-evolving landscape of technology (Rahman, 2023).

#### 7. Recommendation

In synthesizing the extensive landscape of responsible AI practices and corporate responsibility, it is evident that the ethical deployment of Artificial Intelligence (AI) in business is not just a necessity but a foundational pillar for sustainable growth and societal well-being. This comprehensive review has shed light on the multifaceted dimensions of responsible AI, emphasizing the intricate interplay between ethical considerations and corporate responsibility.

The synthesis of responsible AI practices and corporate responsibility underscores the symbiotic relationship between technology and ethical governance. Responsible AI practices encompass a spectrum of considerations, ranging from transparent decision-making processes, bias mitigation, and community engagement to frameworks for continuous improvement and accountability. Corporate responsibility, on the other hand, involves the integration of ethical principles into the very fabric of organizational culture and governance.

The synthesis reveals that the ethical deployment of AI in business is not a mere checkbox exercise but a commitment to fostering trust, transparency, and fairness. From the conceptualization of AI systems to their deployment and ongoing management, businesses must prioritize responsible practices, acknowledging their role as stewards of technology that significantly impacts individuals and communities.

The review strongly emphasizes the need for businesses to adopt a sustainable and ethical approach to AI. This goes beyond mere compliance with regulations; it entails a proactive commitment to prioritizing ethical considerations in all facets of AI implementation. As AI technologies continue to evolve, businesses must view ethical deployment not as a constraint but as an opportunity to build resilient, inclusive, and socially responsible enterprises. A sustainable and ethical approach involves not only the protection of individuals' rights and well-being but also the long-term viability of businesses in a rapidly changing technological landscape. Businesses that embrace ethical AI practices not only contribute to societal welfare but also position themselves as leaders in a marketplace increasingly driven by values and ethical considerations.

Looking ahead, the ethical deployment of AI in business faces both promising opportunities and persistent challenges. Future considerations include the continued development of ethical frameworks that adapt to emerging technologies, collaboration between industries to share best practices, and ongoing research to address new ethical challenges as AI evolves. However, challenges persist, and the review acknowledges that ethical deployment is an evolving journey. The potential for bias, the ethical implications of advanced AI applications, and the need for effective governance mechanisms are ongoing challenges that businesses must navigate. Continuous education, engagement with diverse stakeholders, and a commitment to staying ahead of ethical considerations are essential elements for businesses seeking to lead responsibly in the AI landscape.

## 8. Conclusion

In conclusion, the synthesis of responsible AI practices and corporate responsibility underscores the inseparable connection between ethical considerations and successful AI deployment in business. The need for a sustainable and ethical approach is not just a moral imperative but a strategic necessity in a world where technology and ethics converge. As businesses navigate the complexities of AI deployment, the ongoing commitment to ethical principles will not only shape the future of technology but also define the legacy of responsible and forward-thinking enterprises. It is in this commitment that businesses find the path to not only harness the potential of AI but also to contribute positively to society, fostering a future where technology serves as a force for good.

## **Compliance with ethical standards**

Disclosure of conflict of interest

No conflict of interest to be disclosed.

#### References

[1] Adebukola, A.A., Navya, A.N., Jordan, F.J., Jenifer, N.J. and Begley, R.D., 2022. Cyber Security as a Threat to Health Care. *Journal of Technology and Systems*, *4*(1), pp.32-64.

- [2] Aldboush, H.H. and Ferdous, M., 2023. Building Trust in Fintech: An Analysis of Ethical and Privacy Considerations in the Intersection of Big Data, AI, and Customer Trust. *International Journal of Financial Studies*, 11(3), p.90.
- [3] Aljeraisy, A., Barati, M., Rana, O. and Perera, C., 2021. Privacy laws and privacy by design schemes for the internet of things: A developer's perspective. *ACM Computing Surveys (Csur)*, *54*(5), pp.1-38.
- [4] Anamu, U.S., Ayodele, O.O., Olorundaisi, E., Babalola, B.J., Odetola, P.I., Ogunmefun, A., Ukoba, K., Jen, T.C. and Olubambi, P.A., 2023. Fundamental design strategies for advancing the development of high entropy alloys for thermo-mechanical application: A critical review. *Journal of Materials Research and Technology*.
- [5] Bai, M. and Fang, X., 2022. Ethical Considerations in Big Data-Enhanced ai: A Comprehensive Analysis. *EPH-International Journal of Educational Research*, 6(3), pp.1-4.
- [6] Birkstedt, T., Minkkinen, M., Tandon, A. and Mäntymäki, M., 2023. Al governance: themes, knowledge gaps and future agendas. *Internet Research*, *33*(7), pp.133-167.
- [7] Brendel, A.B., Mirbabaie, M., Lembcke, T.B. and Hofeditz, L., 2021. Ethical management of artificial intelligence. *Sustainability*, *13*(4), p.1974.
- [8] Burr, C. and Leslie, D., 2023. Ethical assurance: a practical approach to the responsible design, development, and deployment of data-driven technologies. *AI and Ethics*, *3*(1), pp.73-98.
- [9] Camilleri, M.A., 2023. Artificial intelligence governance: Ethical considerations and implications for social responsibility. *Expert Systems*, p.e13406.
- [10] Char, D.S., Abràmoff, M.D. and Feudtner, C., 2020. Identifying ethical considerations for machine learning healthcare applications. *The American Journal of Bioethics*, 20(11), pp.7-17.
- [11] Chi, N., Lurie, E. and Mulligan, D.K., 2021, July. Reconfiguring diversity and inclusion for AI ethics. In *Proceedings* of the 2021 AAAI/ACM Conference on AI, Ethics, and Society (pp. 447-457).
- [12] Dwivedi, Y.K., Hughes, L., Ismagilova, E., Aarts, G., Coombs, C., Crick, T., Duan, Y., Dwivedi, R., Edwards, J., Eirug, A. and Galanos, V., 2021. Artificial Intelligence (AI): Multidisciplinary perspectives on emerging challenges, opportunities, and agenda for research, practice and policy. *International Journal of Information Management*, *57*, p.101994.
- [13] Felzmann, H., Fosch-Villaronga, E., Lutz, C. and Tamò-Larrieux, A., 2020. Towards transparency by design for artificial intelligence. *Science and Engineering Ethics*, 26(6), pp.3333-3361.
- [14] Fichter, K., Lüdeke-Freund, F., Schaltegger, S. and Schillebeeckx, S.J., 2023. Sustainability impact assessment of new ventures: An emerging field of research. *Journal of Cleaner Production*, 384, p.135452.
- [15] Fu, R., Huang, Y. and Singh, P.V., 2020. Ai and algorithmic bias: Source, detection, mitigation and implications. *Detection, Mitigation and Implications (July 26, 2020)*.
- [16] Garcia Valencia, O.A., Suppadungsuk, S., Thongprayoon, C., Miao, J., Tangpanithandee, S., Craici, I.M. and Cheungpasitporn, W., 2023. Ethical implications of chatbot utilization in nephrology. *Journal of Personalized Medicine*, *13*(9), p.1363.
- [17] Gegenhuber, T. and Mair, J., 2024. Open social innovation: taking stock and moving forward. *Industry and Innovation*, 31(1), pp.130-157.
- [18] Javaid, M., Haleem, A., Singh, R.P., Suman, R. and Gonzalez, E.S., 2022. Understanding the adoption of Industry 4.0 technologies in improving environmental sustainability. *Sustainable Operations and Computers*, *3*, pp.203-217.
- [19] Kassir, S., Baker, L., Dolphin, J. and Polli, F., 2023. Al for hiring in context: a perspective on overcoming the unique challenges of employment research to mitigate disparate impact. *Al and Ethics*, *3*(3), pp.845-868.
- [20] Khan, F. and Mer, A., 2023. Embracing Artificial Intelligence Technology: Legal Implications with Special Reference to European Union Initiatives of Data Protection. In *Digital Transformation, Strategic Resilience, Cyber Security and Risk Management* (pp. 119-141). Emerald Publishing Limited.
- [21] Larson, D.B., Magnus, D.C., Lungren, M.P., Shah, N.H. and Langlotz, C.P., 2020. Ethics of using and sharing clinical imaging data for artificial intelligence: a proposed framework. *Radiology*, 295(3), pp.675-682.
- [22] Lee, M.S.A. and Singh, J., 2021, May. The landscape and gaps in open source fairness toolkits. In *Proceedings of the 2021 CHI conference on human factors in computing systems* (pp. 1-13).

- [23] Liao, Q.V., Gruen, D. and Miller, S., 2020, April. Questioning the AI: informing design practices for explainable AI user experiences. In *Proceedings of the 2020 CHI conference on human factors in computing systems* (pp. 1-15).
- [24] Lobschat, L., Mueller, B., Eggers, F., Brandimarte, L., Diefenbach, S., Kroschke, M. and Wirtz, J., 2021. Corporate digital responsibility. *Journal of Business Research*, 122, pp.875-888.
- [25] Mamo, N., Martin, G.M., Desira, M., Ellul, B. and Ebejer, J.P., 2020. Dwarna: a blockchain solution for dynamic consent in biobanking. *European Journal of Human Genetics*, 28(5), pp.609-626.
- [26] Manure, A. and Bengani, S., 2023. Bias and Fairness. In *Introduction to Responsible AI: Implement Ethical AI Using Python* (pp. 23-60). Berkeley, CA: Apress.
- [27] Mehrabi, N., Morstatter, F., Saxena, N., Lerman, K. and Galstyan, A., 2021. A survey on bias and fairness in machine learning. *ACM computing surveys (CSUR)*, 54(6), pp.1-35.
- [28] Mylrea, M. and Robinson, N., 2023. Artificial Intelligence (AI) Trust Framework and Maturity Model: Applying an Entropy Lens to Improve Security, Privacy, and Ethical AI. *Entropy*, 25(10), p.1429.
- [29] Nassar, A. and Kamal, M., 2021. Ethical Dilemmas in AI-Powered Decision-Making: A Deep Dive into Big Data-Driven Ethical Considerations. *International Journal of Responsible Artificial Intelligence*, 11(8), pp.1-11.
- [30] Radu, R., 2021. Steering the governance of artificial intelligence: national strategies in perspective. *Policy and society*, *40*(2), pp.178-193.
- [31] Rahman, A., 2023. AI Revolution: Shaping Industries Through Artificial Intelligence and Machine Learning. *Journal Environmental Sciences and Technology*, *2*(1), pp.93-105.
- [32] Rane, N., 2023. ChatGPT and similar Generative Artificial Intelligence (AI) for building and construction industry: Contribution, Opportunities and Challenges of large language Models for Industry 4.0, Industry 5.0, and Society 5.0. Opportunities and Challenges of Large Language Models for Industry, 4.
- [33] Richey Jr, R.G., Chowdhury, S., Davis-Sramek, B., Giannakis, M. and Dwivedi, Y.K., 2023. Artificial intelligence in logistics and supply chain management: A primer and roadmap for research. *Journal of Business Logistics*, 44(4), pp.532-549.
- [34] Robinson, S.C., 2020. Trust, transparency, and openness: How inclusion of cultural values shapes Nordic national public policy strategies for artificial intelligence (AI). *Technology in Society*, *63*, p.101421.
- [35] Sama, L.M., Stefanidis, A. and Casselman, R.M., 2022. Rethinking corporate governance in the digital economy: The role of stewardship. *Business Horizons*, 65(5), pp.535-546.
- [36] Sanni, O., Adeleke, O., Ukoba, K., Ren, J. and Jen, T.C., 2024. Prediction of inhibition performance of agro-waste extract in simulated acidizing media via machine learning. *Fuel*, *356*, p.129527.
- [37] Sarker, I.H., 2022. Ai-based modeling: Techniques, applications and research issues towards automation, intelligent and smart systems. *SN Computer Science*, *3*(2), p.158.
- [38] Satornino, C.B., Du, S. and Grewal, D., 2024. Using artificial intelligence to advance sustainable development in industrial markets: A complex adaptive systems perspective. *Industrial Marketing Management*, 116, pp.145-157.
- [39] Schwartz, R., Vassilev, A., Greene, K., Perine, L., Burt, A. and Hall, P., 2022. Towards a standard for identifying and managing bias in artificial intelligence. *NIST special publication*, *1270*(10.6028).
- [40] Schwendicke, F. and Krois, J., 2021. Better reporting of studies on artificial intelligence: CONSORT-AI and beyond. *Journal of dental research*, 100(7), pp.677-680.
- [41] Selbst, A.D., 2021. An Institutional View of Algorithmic Impact. Harvard Journal of Law & Technology, 35(1).
- [42] Shin, D., 2021. The effects of explainability and causability on perception, trust, and acceptance: Implications for explainable AI. *International Journal of Human-Computer Studies*, 146, p.102551.
- [43] Sikstrom, L., Maslej, M.M., Hui, K., Findlay, Z., Buchman, D.Z. and Hill, S.L., 2022. Conceptualising fairness: three pillars for medical algorithms and health equity. *BMJ health & care informatics*, 29(1).
- [44] Stahl, B.C., 2021. Artificial intelligence for a better future: an ecosystem perspective on the ethics of AI and emerging digital technologies (p. 124). Springer Nature.
- [45] Teodorescu, M.H., Morse, L., Awwad, Y. and Kane, G.C., 2021. Failures of Fairness in Automation Require a Deeper Understanding of Human-ML Augmentation. *Mis Quarterly*, 45(3).

- [46] Varona, D. and Suárez, J.L., 2022. Discrimination, bias, fairness, and trustworthy AI. *Applied Sciences*, 12(12), p.5826.
- [47] Walters, R. and Novak, M., 2021. Artificial Intelligence and Law. In *Cyber Security, Artificial Intelligence, Data Protection & the Law* (pp. 39-69). Singapore: Springer Singapore.
- [48] Wamba-Taguimdje, S.L., Fosso Wamba, S., Kala Kamdjoug, J.R. and Tchatchouang Wanko, C.E., 2020. Influence of artificial intelligence (AI) on firm performance: the business value of AI-based transformation projects. *Business Process Management Journal*, 26(7), pp.1893-1924.
- [49] Wang, X. and Lo, K., 2021. Just transition: A conceptual review. *Energy Research & Social Science*, 82, p.102291.
- [50] Yarger, L., Cobb Payton, F. and Neupane, B., 2020. Algorithmic equity in the hiring of underrepresented IT job candidates. *Online information review*, 44(2), pp.383-395.
- [51] Yu, P.K., 2020. The algorithmic divide and equality in the age of artificial intelligence. Fla. L. Rev., 72, p.3.
- [52] Ziakis, C. and Vlachopoulou, M., 2023. Artificial Intelligence in Digital Marketing: Insights from a Comprehensive Review. *Information*, *14*(12), p.664.